

REMARKS

Claims 1-28 are pending in this application. By this Amendment, claims 7, 17 and 23 are amended. Reconsideration and withdrawal of the rejections in view of the foregoing amendments and the following remarks is respectfully requested.

I. Allowable Claims

The Examiner is thanked for the indication that claims 1-6 are allowed, and that claims 19-22, 26 and 27 contain allowable subject matter. However, for at least the reasons set forth below, Applicants submit that all pending claims are in condition for allowance.

II. Claim Rejection- 35 U.S.C. § 103(a)

A. Belsterling et al in view of Holden

The Office Action rejects claims 7, 14 and 23 under 35 U.S.C. § 103(a) over U.S. Patent No. 4,536,690 to Belsterling et al (hereinafter "Belsterling") in view of U.S. Patent No. 6,324,858 to Holden (hereinafter "Holden"). This rejection is respectfully traversed.

As discussed in Applicants' Request for Reconsideration dated November 21, 2002, Belsterling is directed to a self-propelled robotic platform driven by magnetic coils, where the magnetic flux of the coils link the platform with an underlying, preferably conductive, supporting surface. As also discussed in Applicants' Request for Reconsideration, Holden is

directed to a self-cooling rotary motor. Further, as noted in the Advisory Action dated December 9, 2002, “Belsterling in view of Holden does not disclose a gantry.”

Accordingly, Belsterling and Holden neither disclose nor suggest, either alone or in combination, a linear motor of a gantry comprising a temperature sensor as set forth in claim 7, or measuring a temperature of the linear motor of the gantry as set forth in claim 23. For at least these reasons, independent claims 7 and 23 are allowable over Belsterling and Holden either individually or in combination. Claim 14 is allowable for at least the reasons discussed above with respect to independent claim 7, from which it depends, as well as for its added features. Accordingly, the rejection of claims 7, 14 and 23 should be withdrawn.

B. Belsterling in view of Holden in view of Vollenwyder et al.

The Office Action rejects claims 8 and 24 under 35 U.S.C. § 103(a) over Belsterling in view of Holden and further in view of U.S. Patent No. 5,258,671 to Vollenwyder et al (hereinafter “Vollenwyder”). This rejection is respectfully traversed.

Vollenwyder is cited for disclosing a fan for cooling a linear motor. As such, Vollenwyder does not cure the deficiencies of Belsterling or Holden discussed above. Accordingly, independent claims 7 and 23 are allowable over Belsterling, Holden and Vollenwyder either alone or in combination. Dependent claims 8 and 24 are allowable for at least the reasons discussed above with respect to independent claims 7 and 23, from which they

respectively depend, as well as for their added features. Accordingly, the rejection of claims 8 and 24 should be withdrawn.

C. Belsterling in view of Holden in view of Hartzell, Jr.

The Office Action rejects claim 9 under 35 U.S.C. § 103(a) over Belsterling in view of Holden and further in view of U.S. Patent No. 5,834,862 to Hartzell, Jr. (hereinafter “Hartzell”). This rejection is respectfully traversed.

Hartzell is cited for teaching a nozzle connected to a valve for the purpose of increasing the efficiency of a cooling system. The cooling system cools a closely coupled linear motor used in high precision, high-speed X-Y stage wirebonders and diebonders. As such, Hartzell does not cure the deficiencies of Belsterling or Holden discussed above. Accordingly, independent claim 7 is allowable over Belsterling, Holden and Hartzell either alone or in combination. Dependent claim 9 is allowable for at least the reasons discussed above with respect to independent claim 7, from which it depends, as well as for its added features. Accordingly, the rejection of claim 9 should be withdrawn.

D. Belsterling in view of Holden in view of Emshoff et al.

The Office Action rejects claims 10, 12 and 13 under 35 U.S.C. § 103(a) over Belsterling in view of Holden and further in view of U.S. Patent No. 5,701,044 to Emshoff et al (hereinafter “Emshoff”). This rejection is respectfully traversed.

Emshoff is cited for teaching a first cooling device comprising water flowing in hoses and a second cooling device comprising a cooling gas also cooling a generator. As such, Emshoff does not cure the deficiencies of Belsterling or Holden discussed above. Accordingly, independent claim 7 is allowable over Belsterling, Holden and Emshoff either alone or in combination. Dependent claims 10, 12 and 13 are allowable for at least the reasons discussed above with respect to independent claim 7, from which they depend, as well as for their added features. Accordingly, the rejection of claims 10, 12 and 13 should be withdrawn.

E. Belsterling in view of Holden in view of Straley

The Office Action rejects claim 11 under 35 U.S.C. § 103(a) over Belsterling in view of Holden and further in view of U.S. Patent No. 6,329,732 to Straley (hereinafter “Straley”). This rejection is respectfully traversed.

Straley is cited for teaching multiple temperature sensors for measuring a temperature of each coil in a motor. As such, Straley does not cure the deficiencies of Belsterling or Holden discussed above. Accordingly, independent claim 7 is allowable over Belsterling, Holden and Straley either alone or in combination. Dependent claim 11 is allowable at least for the reasons discussed above with respect to independent claim 7, from which it depends, as well as for its added features. Accordingly, the rejection of claim 11 should be withdrawn.

F. Belsterling in view of Holden in view of Leuthen

The Office Action rejects claims 15, 17, 18 and 28 under 35 U.S.C. § 103(a) over Belsterling in view of Holden and further in view of U.S. Patent No. 4,542,324 to Leuthen (hereinafter “Leuthen”). This rejection is respectfully traversed.

Leuthen is cited for means to reduce a motor speed when the sensed temperature of the motor is above a predetermined temperature. As such, Leuthen does not cure the deficiencies of Belsterling or Holden discussed above. Accordingly, independent claims 7, 17 and 23 are allowable over Belsterling, Holden and Leuthen either alone or in combination. Dependent claims 15 and 18 and 28 are allowable at least for the reasons discussed above with respect to independent claims 7, 17 and 23, from which they respectively depend, as well as for their added features. Accordingly, the rejection of claims 15, 17, 18 and 28 should be withdrawn.

G. Belsterling in view of Holden in view of Yabu

The Office Action rejects claims 16 and 25 under 35 U.S.C. § 103(a) over Belsterling in view of Holden and further in view of U.S. Patent No. 4,907,021 to Yabu (hereinafter “Yabu”). This rejection is respectfully traversed.

Yabu is cited for teaching that environmental factors are important for gantry systems used in projection exposure devices and further teaches environmental sensors. Applicants note that Figure 1 of Yabu discloses piezoelectric 10 devices for adjusting a reduction projection lens system 3 based on environmental conditions. Yabu does not disclose a gantry. As such, Yabu

does not cure the deficiencies of Belsterling or Holden discussed above. Thus, independent claims 7 and 23 are allowable over Belsterling, Holden and Yabu either alone or in combination. Dependent claims 16 and 25 are allowable at least for the reasons discussed above with respect to independent claims 7 and 23, from which they respectively depend, as well as for their added features. Accordingly, the rejection of claims 16 and 25 should be withdrawn.

CONCLUSION

In view of the foregoing amendments and remarks, it is respectfully submitted that the application is in condition for allowance. If the Examiner believes that any additional changes would place the application in better condition for allowance, the Examiner is invited to contact the undersigned attorney, **Randall H. Cherry**, at the telephone number listed below.

To the extent necessary, a petition for an extension of time under 37 C.F.R. 1.136 is hereby made. Please charge any shortage in fees due in connection with the filing of this paper, including extension of time fees, to Deposit Account 16-0607 and please credit any excess fees to such deposit account.

Respectfully submitted,
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